



**HIKVISION**

# **Network Video Recorder**

## **Quick Start Guide**

UD.6L0202B2052A01

## **Quick Start Guide**

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### **About this Manual**

This Manual is applicable to Network Video Recorder (NVR).

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<http://overseas.hikvision.com/en/>).

Please use this user manual under the guidance of professionals.

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## Regulatory Information

### FCC Information

**FCC compliance:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2004/108/EC, the LVD Directive 2006/95/EC and the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info)



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info)

### Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.



## Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into “Warnings” and “Cautions”.

**Warnings:** Serious injury or death may occur if any of the warnings are neglected.

**Cautions:** Injury or equipment damage may occur if any of the cautions are neglected.

	
<b>Warnings</b> Follow these safeguards to prevent serious injury or death.	<b>Cautions</b> Follow these precautions to prevent potential injury or material damage.



### Warnings

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 VAC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

## Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

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Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact dealer.

This manual is applicable to the models listed in the following table.

Series	Model	Type
DS-96128NI-H16	DS-96128NI-H16 DS-96128NI-H16/H DS-96128NI-H16/I DS-96128NI-H16/H/I	Network Video Recorder
DS-96128NI-F16	DS-96128NI-F16 DS-96128NI-F16/H DS-96128NI-F16/I DS-96128NI-F16/H/I	Network Video Recorder
DS-96256NI-H16	DS-96256NI-H16 DS-96256NI-H16/H DS-96256NI-H16/I DS-96256NI-H16/H/I	Network Video Recorder
DS-96256NI-F16	DS-96256NI-F16 DS-96256NI-F16/H DS-96256NI-F16/I DS-96256NI-F16/H/I	Network Video Recorder
DS-96128NI-H24	DS-96128NI-H24 DS-96128NI-H24/H DS-96128NI-H24/I DS-96128NI-H24/H/I	Network Video Recorder
DS-96128NI-F24	DS-96128NI-F24 DS-96128NI-F24/H DS-96128NI-F24/I DS-96128NI-F24/H/I	Network Video Recorder
DS-96256NI-H24	DS-96256NI-H24 DS-96256NI-H24/H DS-96256NI-H24/I DS-96256NI-H24/H/I	Network Video Recorder
DS-96256NI-F24	DS-96256NI-F24 DS-96256NI-F24/H DS-96256NI-F24/I DS-96256NI-F24/H/I	Network Video Recorder

## NVR Pre-Installation

The NVR are highly advanced surveillance equipment that should be installed with care. Please take into consideration the following precautionary steps before installation of the NVR.

1. Keep all liquids away from the NVR.
2. Install the NVR in a well-ventilated and dust-free area.
3. Ensure environmental conditions meet factory specifications.
4. Install a manufacturer recommended HDD.

## NVR Installation

During the installation of the NVR:

1. Use brackets for rack mounting.
2. Ensure there is ample room for audio and video cables.
3. When routing cables, ensure that the bend radius of the cables are no less than five times than its diameter.
4. Connect both the alarm and RS-485 cable.
5. Allow at least 2cm (≈0.75-inch) of space between racks mounted devices.
6. Ensure the NVR is grounded.
7. Environmental temperature should be within the range of -10 ℃ ~ 55 ℃, 14 ℉ ~ 131 ℉.
8. Environmental humidity should be within the range of 10% ~ 90%.

## Hard Disk Installation

### *Before you start:*

Disconnect the power from the NVR before installing a hard disk drive (HDD). A factory recommended HDD should be used for this installation.

Up to 24 SATA hard disks can be installed on your NVR.

**Tools Required:** Screwdriver.

The following section introduces the HDD installation of DS-96128NI-H16 and DS-96128NI-H24 as the example.

### *Steps (for DS-96000NI-H16):*

1. Fasten the hard disk mounting handle to the hard disk with screws.



2. Insert the key and turn in clockwise direction to open the panel lock.



3. Press the buttons on the panel of two sides and open the front panel.





4. Insert the hard disk along the slot until it is placed into position.



5. Repeat the above steps to install other hard disks onto the NVR. After having finished the installation of all hard disks, close the front panel and lock it with the key again.



***Steps (for DS-96000NI-H24):***

1. Insert the key and turn in clockwise direction to open the panel lock.



2. Take the front panel off from the device and then the HDD cases appear.



3. Press the blue spring lock of the HDD case according to the direction of arrow and pull the HDD case out.



4. Put the HDD into the HDD case (with the PCB side downward) and secure them together with 4 screws.



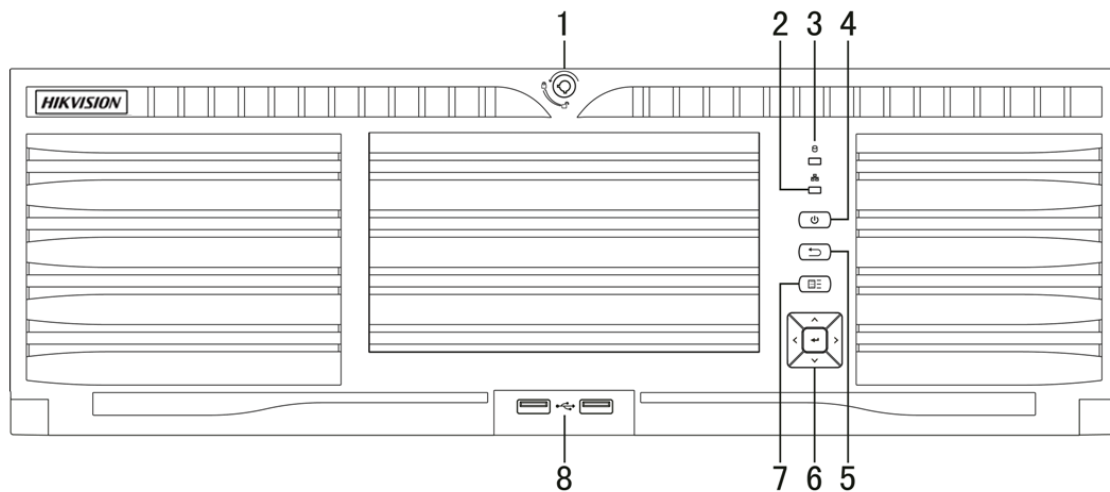
5. Insert the HDD case (with the PCB side of HDD downward) to the device and push the spring lock back to the case to lock it.



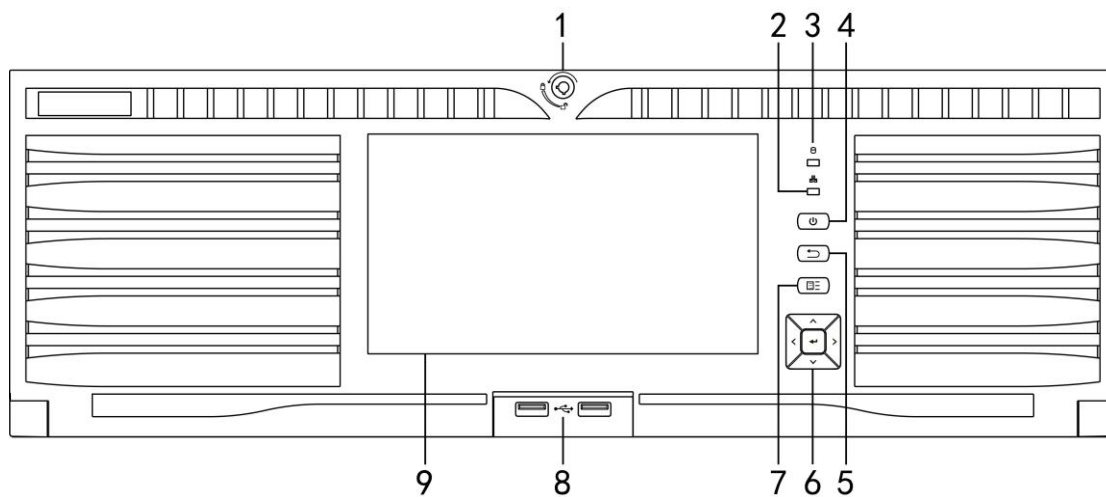
6. Repeat the above steps 3-5 to install other hard disks onto the NVR. After having finished the installation of all hard disks, install the front panel back and lock it with the key again.



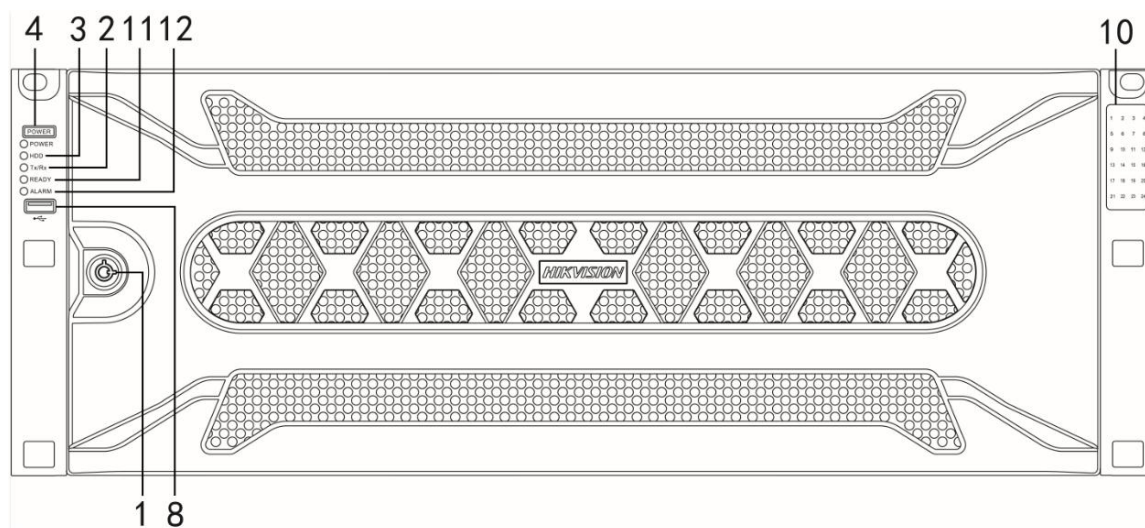
## Front Panel



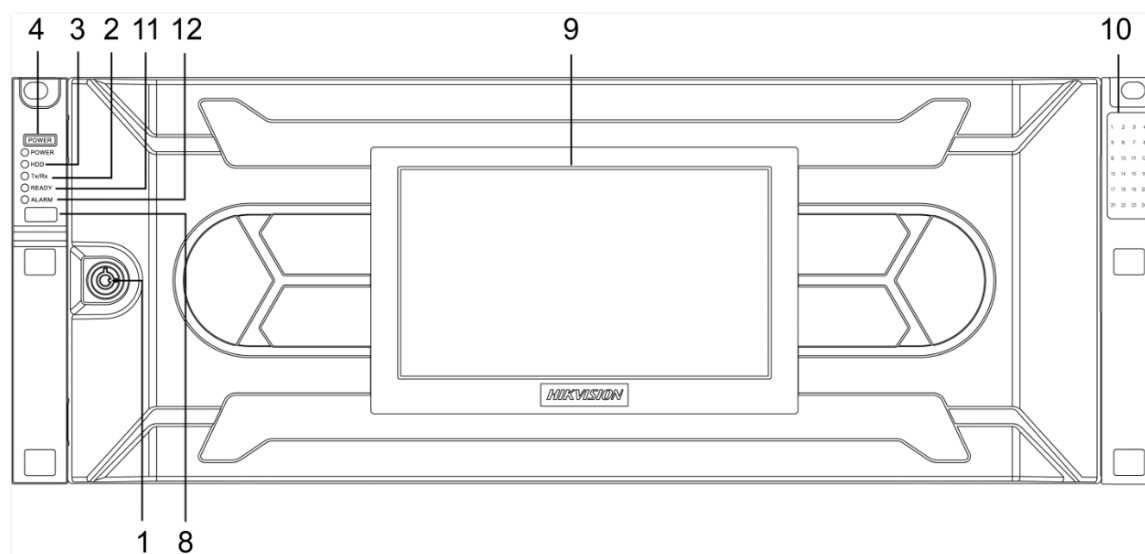
Front Panel of DS-96000NI-H16/F16 (I)



Front Panel of DS-96000NI-H16/F16(H) and DS-96000NI-H16/F16(H/I)




Front Panel of DS-96000NI-H24/F24 (I)

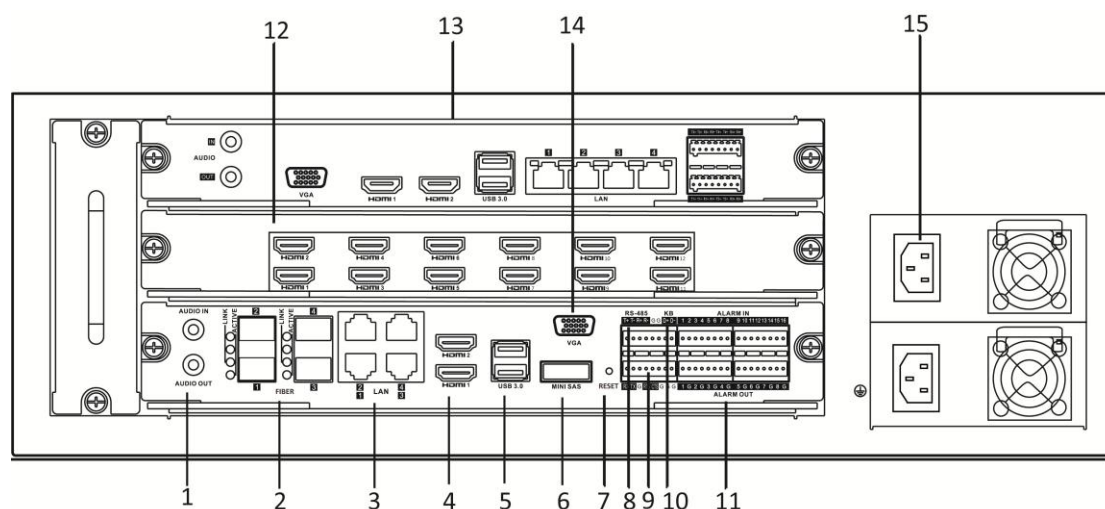


Front Panel of DS-96000NI-H24/F24(H) and DS-96000NI-H24/F24(H/I)

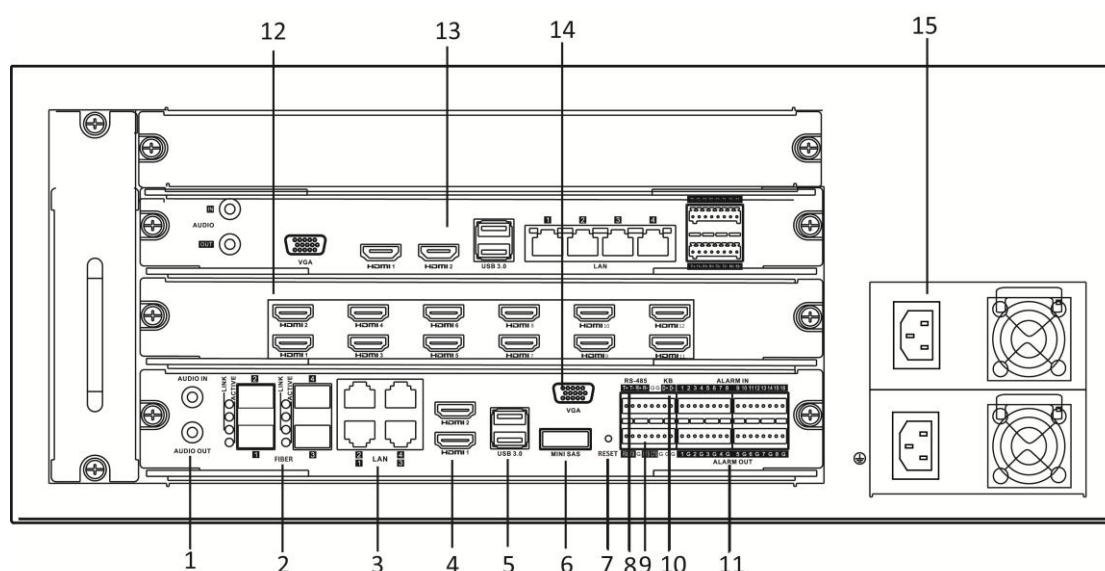
## Description of Front Panel

No.	Name		Function Description
1	Front Panel Lock		You can lock or unlock the panel by the key.
2	Tx/Rx Status Indicator		Flashes blue when network connection is functioning properly.
3	HDD Status Indicator		Flashes red when data is being read from or written to HDD.
4	POWER Status Indicator (DS-96128NI-H24)		Lights blue when the device starts up, and remains red when the device is soft-off.
	POWER ON/OFF (DS-96128NI-H16)		Power on/off switch.
5	ESC		Back to the previous menu.
			Press to enter the PTZ control mode of the first camera.
			Double-press for switching between main and auxiliary output.
6	Control Buttons	DIRECTION	The DIRECTION buttons are used to navigate between different fields and items in menus.
			In the Playback mode, the Up and Down button is used to speed up and slow down recorded video. The Left and Right button is used to reverse 30s and forward 30s the playback progress.
			In Live View mode, the Up button is to switch the live view mode between single- and multi-window divisions. The Down button is used to enter the normal playback mode. The Left button is to show the quick setting toolbar. And the Right button can be used to switch the live view image of the next camera.
			In PTZ control mode, it can control the movement of the PTZ camera.
	ENTER	The ENTER button is used to confirm selection in any of the menu modes.	
		It can also be used to <i>tick</i> checkbox fields.	
		In Playback mode, it can be used to play or pause the video.	
		In single-frame Playback mode, pressing the button will advance the video by a single frame.	
		In Auto-switch mode, it can be used to stop /start auto switch.	
7	MENU		Pressing the button will help you return to the Main menu (after successful login).
			Press and hold the button for 5 seconds will turn off audible key beep.
8	USB Interfaces		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).  The USB ports are provided for the use of intel board when it is connected.
9	Touch LCD Screen		The touch LCD is supported by /H and /H/I models by default, and is optional for other models. It outputs the simultaneous image with the VGA/HDMI1 and the local menu can be controlled by the touch operation.
10	HDD Slot Sequence		Indicates the HDD slot number sequence in the chassis.
11	READY Status Indicator		Lights in red when the device is working normally.
12	ALARM Status Indicator		Lights in red when there is alarm triggered.

## Rear Panel



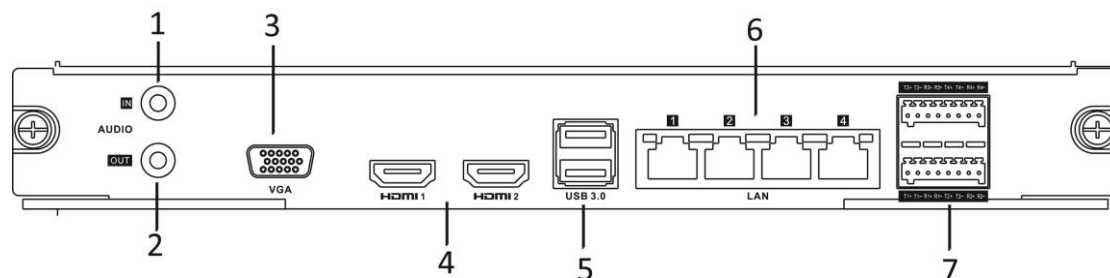
Rear Panel of DS-96000NI-H16/F16



Rear Panel of DS-96000NI-H24/F24

No.	Item	Description
1	AUDIO OUT	RCA connector for audio output. This connector is synchronized with VGA video output.
	AUDIO IN	RCA connector for audio input.
2	FIBER Interface	4 FIBER network interfaces.
3	LAN Interface	4 LAN network interfaces.
4	HDMI™	2 HDMI™ video output connectors.
5	USB 3.0 interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
6	MINI SAS (Optional)	Connects to SAS expansion enclosure.
7	Reset	Reset the device.

No.	Item	Description
8	<b>RS-485 Interface</b>	Connector for RS-485 devices. T+ and T- pins connect to R+ and R- pins of PTZ receiver respectively.
9	<b>RS-232 Interface</b>	Connector for RS-232 devices.
10	<b>Controller Port</b>	D+, D- pin connects to Ta, Tb pin of controller. For cascading devices, the first NVR's D+, D- pin should be connected with the D+, D- pin of the next NVR.
11	<b>ALARM IN</b>	Connector for alarm input.
	<b>ALARM OUT</b>	Connector for alarm output.
12	<b>HDMI™ Output Extension Board</b>	16 HDMI™ video output connectors. (provided for /H and /H/I models only)
13	<b>Intel Interface Board</b>	Intel interface board for connecting to the x86 operating system host. (provided for 96000NI-H series only)
14	<b>VGA</b>	DB9 connector for VGA output. Display local video output and menu.
15	<b>AC 100V ~ 240V</b>	100 ~ 240VAC power supply.

**Intel Interface Board** (for 96000NI-H series)**Intel Interface Board**

No.	Item	Description
1	<b>AUDIO IN</b>	RCA connector for audio input.
2	<b>AUDIO OUT</b>	RCA connector for audio output.
3	<b>VGA</b>	DB9 connector for VGA output. Display local video output and menu.
4	<b>HDMI™</b>	2 HDMI™ video output connectors.
5	<b>USB 3.0 interface</b>	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
6	<b>LAN Interface</b>	4 LAN network interfaces.
8	<b>RS-485 Interface</b>	RS-485 serial interface.



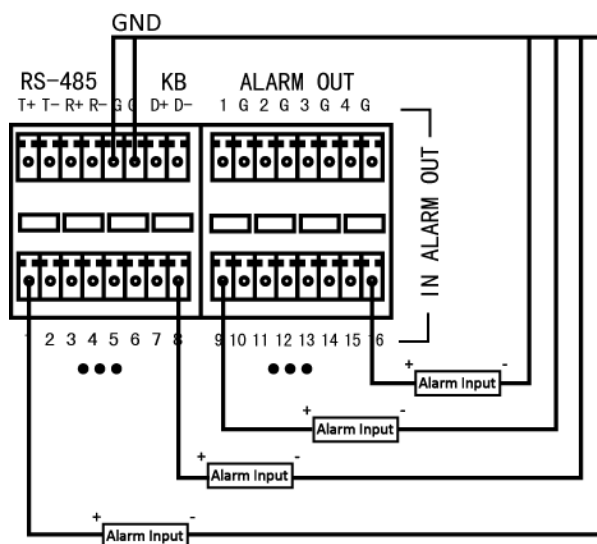
## Peripheral Connections

### Wiring of Alarm Input

The alarm input is an open/closed relay. To connect the alarm input to the device, use the following diagram.

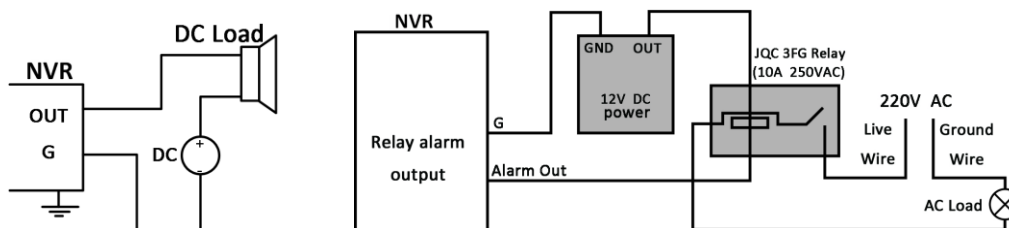


If the alarm input is not an open/close relay, please connect an external relay between the alarm input and the device.



### Wiring of Alarm Output

To connect to an alarm output (AC or DC load), use the following diagram:



DC Load Connection Diagram

AC Load Connection Diagram

For DC load, the jumpers can be used within the limit of 12V/1A safely.

To connect an AC load, jumpers should be left open (you must remove the jumper on the motherboard in the NVR). Use an external relay for safety (as shown in the figure above).

There are 4 jumpers (JP1, JP2, JP3, and JP4) on the motherboard, each corresponding with one alarm output. By default, jumpers are connected. To connect an AC load, jumpers should be removed.

#### Example:

If you connect an AC load to the alarm output 3 of the NVR, then you must remove the JP 3.

### Using of Alarm Connectors

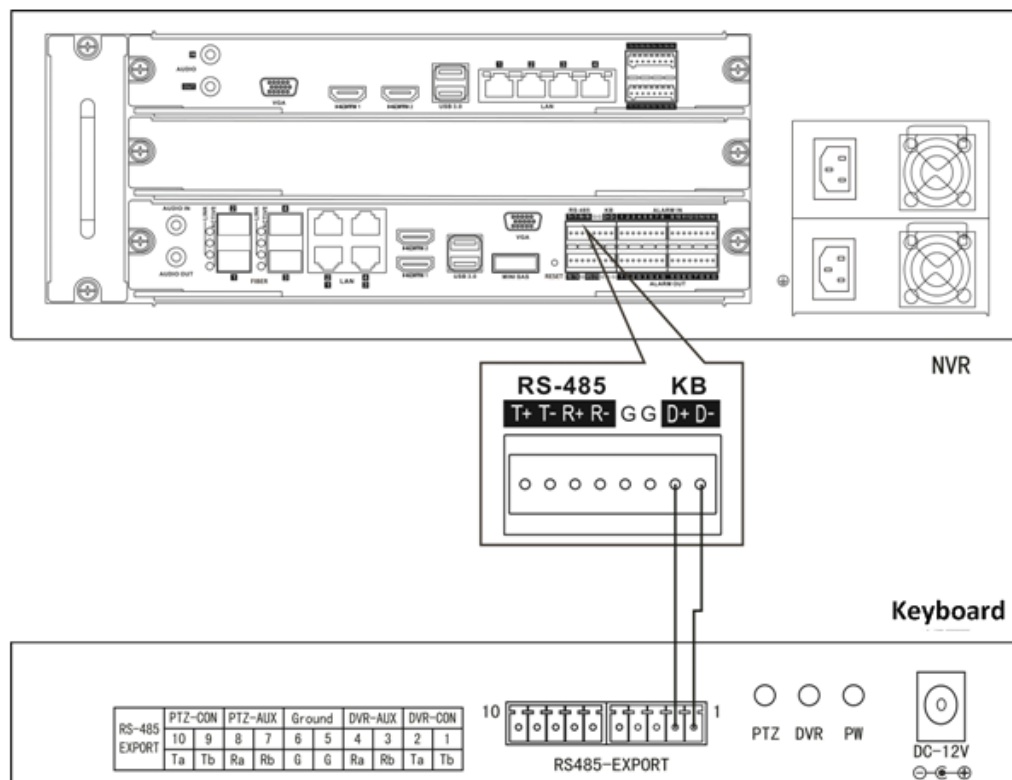
To connect alarm devices to the NVR:

1. Disconnect *pluggable block* from the ALARM IN /ALARM OUT terminal block.
2. Unfasten stop screws from the *pluggable block*, insert signal cables into slots and fasten stop screws. Ensure signal cables are in tight.



3. Connect *pluggable block* back into terminal block.

## Controller Connection



To connect a controller to the NVR:

1. Disconnect *pluggable block* from the KB terminal block.
2. Unfasten stop screws from the KB D+, D- *pluggable block*, insert signal cables into slots and fasten stop screws. Ensure signal cables are in tight.
3. Connect Ta on controller to D+ on terminal block and Tb on controller to D- on terminal block. Fasten stop screws.
4. Connect *pluggable block* back into terminal block.



Make sure both the controller and NVR are grounded.

## HDD Storage Calculation Chart

The following chart shows an estimation of storage space used based on recording at one camera for an hour at a fixed bit rate.

Bit Rate	Storage Used
96K	42M
128K	56M
160K	70M
192K	84M
224K	98M
256K	112M
320K	140M
384K	168M
448K	196M
512K	225M
640K	281M
768K	337M
896K	393M
1024K	450M
1280K	562M
1536K	675M
1792K	787M
2048K	900M
4096K	1800M
8192K	3600M
16384K	7.2G

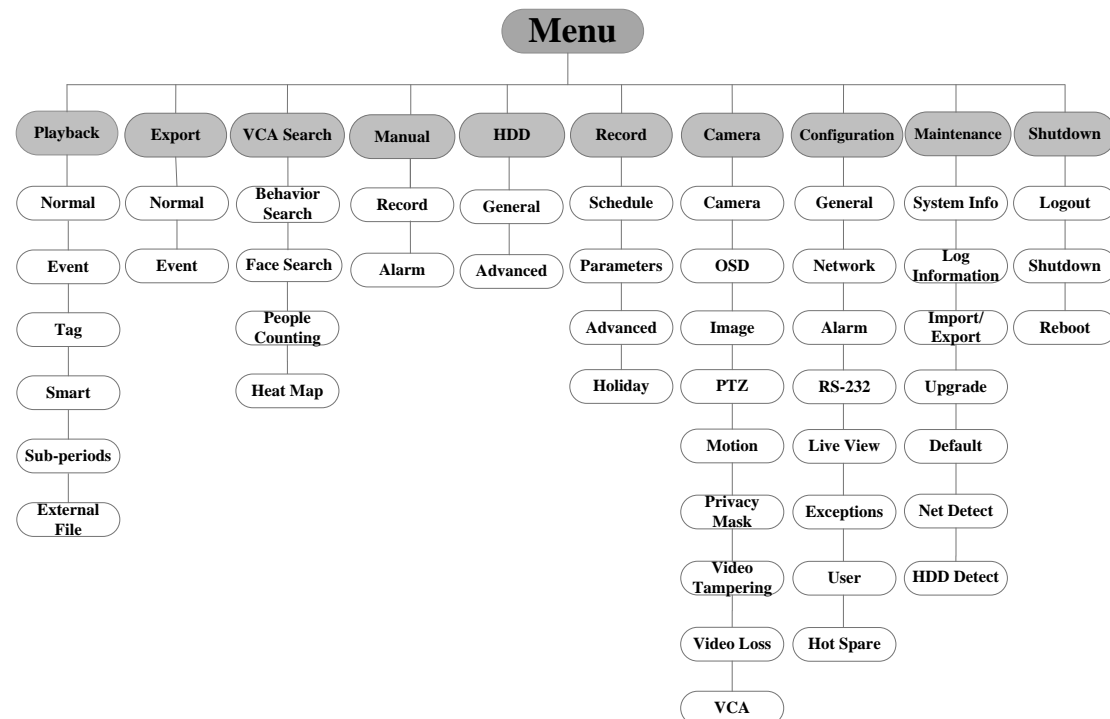


Please note that supplied values for storage space used is just for reference. The storage values in the chart are estimated by formulas and may have some deviation from actual value.

# Menu Operation

## Menu Structure

The menu structure of the NVR is as follows:



The **RAID** is available under the HDD menu when the RAID function is enabled.

## Startup and Shutdown

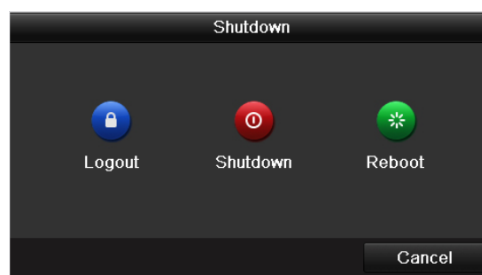
Proper startup and shutdown procedures are crucial to expanding the life of the NVR.

To start your NVR:

1. Plug the power supply into an electrical outlet. It is **HIGHLY** recommended that an Uninterruptible Power Supply (UPS) be used in conjunction with the device. The Power indicator LED should turn blue indicating that the unit begins to start up.
2. After startup, the Power indicator LED remains blue.  
The wizard will guide you through the initial settings, including modifying password, date and time settings, network settings, HDD initializing, and recording.

To shut down the NVR:

1. Enter the Shutdown menu.  
Menu > Shutdown



2. Select the **Shutdown** button.
3. Click the **Yes** button.

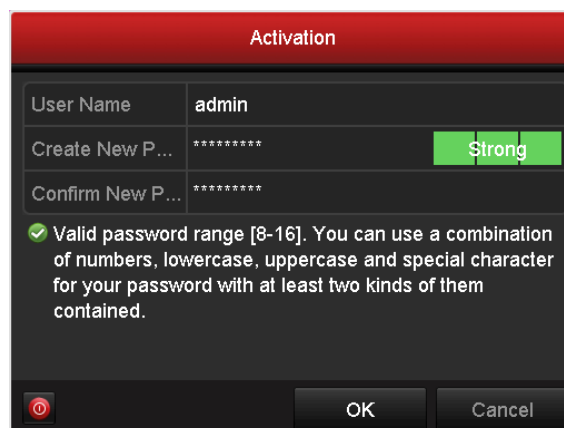
## Setting the Admin Password

### Purpose:

For the first-time access, you need to activate the device by setting an admin password. No operation is allowed before activation. You can also activate the device via Web Browser, SADP or Client Software.

### Steps:

1. Input the same password in the text field of **Create New Password** and **Confirm New Password**.

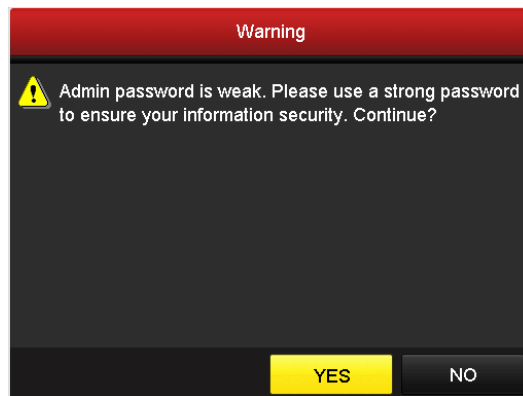


**STRONG PASSWORD RECOMMENDED**– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

2. Click **OK** to save the password and activate the device.



For the old version device, if you update it to the new version, the following dialog box will pop up once the device starts up. You can click **YES** and follow the wizard to set a strong password.



## Login and Logout

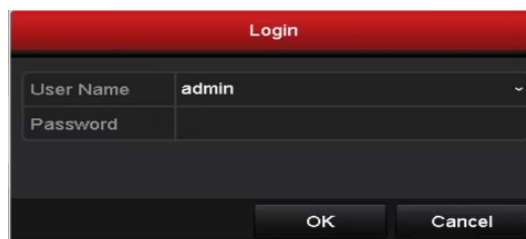
### User Login

#### *Purpose:*

If NVR has logged out, you must login the device before operating the menu and other functions.

#### *Steps:*

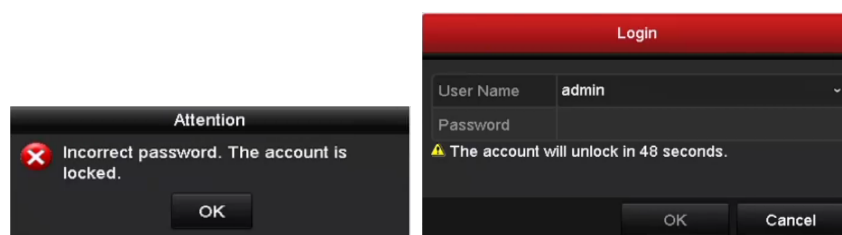
1. Select the **User Name** in the dropdown list.



2. Input **Password**.
3. Click **OK** to log in.



In the Login dialog box, if you have entered the wrong password for 7 times, the current user account will be locked for 60 seconds.



### User Logout

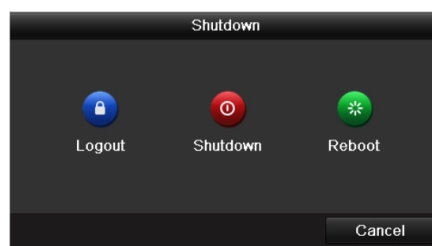
#### *Purpose:*

After logging out, the monitor turns to the live view mode and if you want to perform some operation, you need to enter user name and password log in again.

#### *Steps:*

1. Enter the Shutdown menu.

Menu > Shutdown



2. Click **Logout**.



After you have logged out the system, menu operation on the screen is invalid. It is required to input a user name and password to unlock the system.

## Live View

Some icons are provided on screen in Live View mode to indicate different camera status. These icons include:

### Live View Icons

In the live view mode, there are icons at the upper-right corner of the screen for each camera, showing the status of the record and alarm in the camera, so that you can find problems as soon as possible.



Alarm (video loss, tampering, motion detection, sensor alarm or VCA alarm)



Record (manual record, continuous record, motion detection, alarm or VCA triggered record)



Alarm & Record



Event/Exception (event and exception information, appears at the lower-left corner of the screen.)

## Adding IP Cameras

### *Purpose:*

Before you can get a live view or record of the video, you should add the network cameras to the connection list of the device.


### *Before you start:*

Ensure the network connection is valid and correct, and the IP camera to add has already been activated. Please refer to the *User Manual* for activating the inactive IP camera.

You can select one of the following three options to add the IP camera.

- **OPTION 1:**

### *Steps:*

1. Click to select an idle window in the live view mode.
2. Click the  icon in the center of the window to pop up the adding IP camera interface.

No.	IP Address	Amount of...	Device Ty...	Protocol	Managem
1	10.16.1.62	1	IPC	HIKVISION	8000
2	10.16.1.199	1	IP Dome	HIKVISION	8000

IP Camera Address	10.16.1.62
Protocol	HIKVISION
Management Port	8000
Channel Port	1
Transfer Protocol	Auto
User Name	admin
Admin Password	

3. Select the detected IP camera and click the **Add** button to add it directly, and you can click the **Search** button to refresh the online IP camera manually.

Or you can choose to custom add the IP camera by editing the parameters in the corresponding textfield and then click the **Add** button to add it.

- **OPTION 2:**

**Steps:**

1. Select the **Add IP Camera** option from the right-click menu in live view mode or click Menu> Camera> Camera to enter the IP camera management interface.

Cam...	Add/De...	Status	Security	IP Camera A...	Edit	Upgrade	Camera Name
D1			Risk Password	10.16.1.93		—	IPCamera 01
...		—	Active	10.16.1.93		—	—
...		—	Active	10.16.1.14		—	—
...		—	Active	10.16.1.205		—	—
...		—	Active	10.16.1.216		—	—

Net Receive Idle Bandwidth: 320Mbps

2. The online cameras with same network segment will be detected and displayed in the camera list.
3. Select the IP camera from the list and click the button to add the camera. Or you can click the **One-touch Adding** button to add all cameras (with the same login password) from the list.



Make sure the camera to add has already been activated.

- **OPTION 3:**

**Steps:**

- 1) On the IP Camera Management interface, click the **Custom Adding** button to pop up the Add IP Camera

(Custom) interface.

- 2) You can edit the IP address, protocol, management port, and other information of the IP camera to be added.




If the IP camera to add has not been activated, you can activate it from the IP camera list on the camera management interface.

- 3) (Optional) Check the checkbox of **Continue to Add** to add other IP cameras.  
4) Click **Add** to add the camera.

For the successfully added IP cameras, the Security status shows the security level of the password of camera: strong password, weak password and risk password.

Icon	Explanation	Icon	Explanation
	Edit basic parameters of the camera		Add the detected IP camera.
	The camera is disconnected; you can click the icon to get the exception information of camera.		Delete the IP camera
	Play the live video of the connected		Advanced settings of the camera.



	camera.		
	Upgrade the connected IP camera.	<b>Security</b>	Show the security status of the camera to be active/inactive or the password strength (strong/medium/weak/risk)

## One-touch RAID Configuration

### *Purpose:*

To improve the data security, the RAID function can be enabled and then the disk array must be configured if you want to save recording and log files locally. Through one-touch configuration, you can quickly create the disk array. By default, the array type to be created is RAID 5.

### *Before you start:*

As the default array type is RAID 5, at least 3 HDDs must be installed in you device.

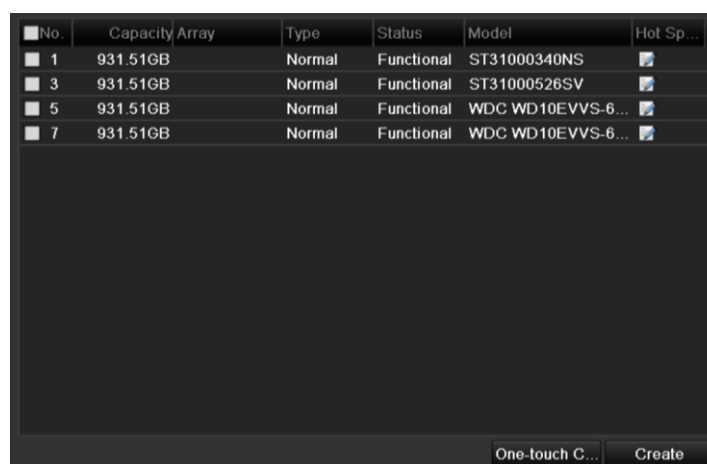
### *Steps:*

1. Enable the RAID function by checking the checkbox in the disk mode configuration interface.

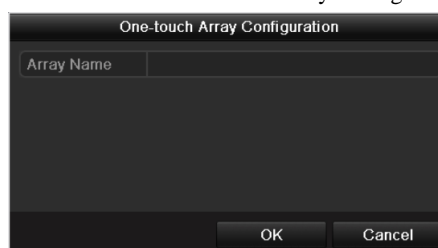
Menu > HDD > Advanced

2. Enter the Physical Disk Settings interface.

Menu > HDD > RAID



3. Click **One-touch Configuration** to enter the One-touch Array Configuration interface.



4. Edit the array name in the **Array Name** text field and click **OK** button to start configuring array.



If you install 4 HDDs or above for one-touch configuration, a hot spare disk will be set by default. It is recommended to set hot spare disk for automatically rebuilding the array when the array is abnormal.

5. When the array configuration is completed, click **OK** button in the pop-up message box to finish the settings.

## Recording

### *Before you start:*

Make sure that the HDD has already been installed. If not, please install a HDD and initialize it. You may refer to the user manual for detailed information.

### *Purpose:*

Two kinds of record types are introduced in the following section, including Instant Record and All-day Record. And for other record types, you may refer to the user manual for detailed information.







After rebooting all the manual records enabled are canceled.

### Instant Recording

On the live view window of each camera, there is a quick setting toolbar which shows on the bottom of the window when you click on it.



Click the  icon to enable the record, and the icon turns to . And click  icon to disable the record, then the icon turns to .

### All-day Recording


#### *Steps:*

1. On the live view window, right click the window and move the cursor to the **Start Recording** option, and select **Continuous Record** or **Motion Detection Record** on your demand.
2. And click the **Yes** button in the popup Attention message box to confirm the settings.  
Then all the cameras will start to record in the selected mode.

## Playback

Play back the record files of a specific camera in the live view menu. Camera switch is supported.

### ● Option 1:

Choose a camera under live view using the mouse and click the  button in the shortcut operation menu.



Only record files recorded during the past five minutes on this camera will be played back.

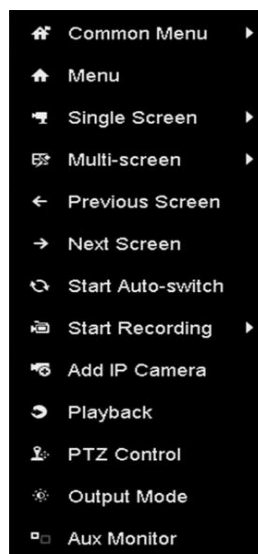


● **Option 2:**

*Steps:*

1. Enter the Playback menu.

Right click a camera in live view mode and select Playback from the menu.



Pressing numerical buttons will switch playback to related cameras during playback process.

2. Playback management.

The toolbar in the bottom part of Playback interface can be used to control playing process.



Just check the camera or cameras if you want to switch playback to another camera or execute simultaneous playback of multiple cameras.

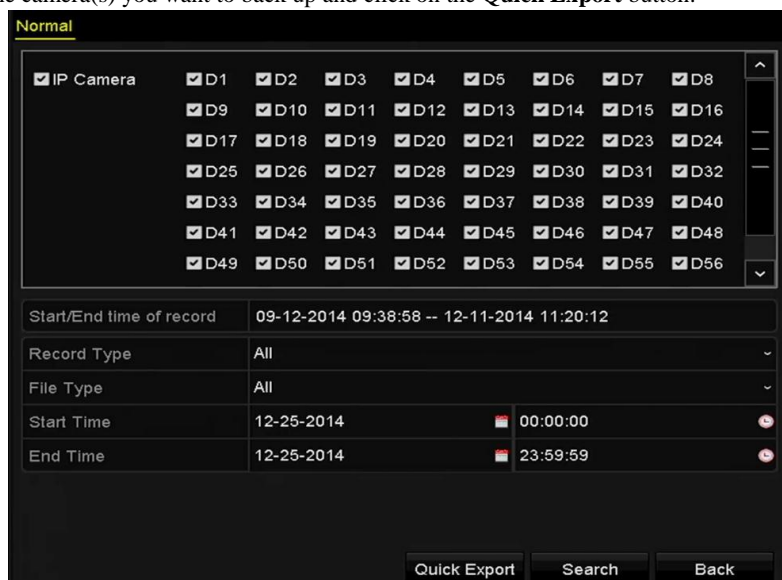
## Backup

Recorded files can be backed up to various devices, such as USB flash drives, USB HDDs or a DVD writer.

### Steps:

1. Enter Video Export interface.

Choose the camera(s) you want to back up and click on the **Quick Export** button.



2. Enter Export interface, choose backup device and click **Export** button to start exporting.



### 3. Check backup result.

Choose the record file in Export interface and click button to check it.



## VCA Detection

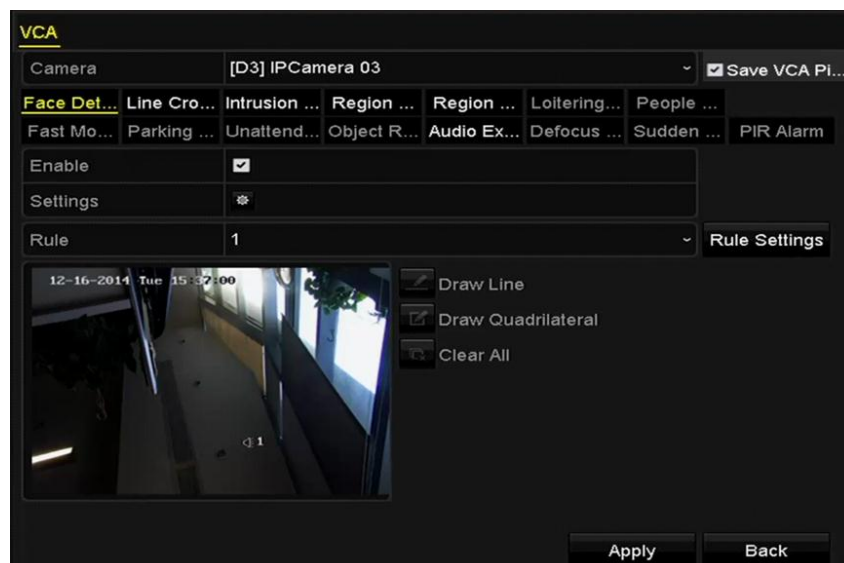
### Purpose:

The NVR supports the VCA detection (*face detection, line crossing detection and intrusion detection*) or receive the VCA alarm (*region entrance detection, region exiting detection, loitering detection, people gathering detection, fast moving detection, parking detection, unattended baggage detection, object removal detection, audio loss exception detection, sudden change of sound intensity detection, and defocus detection*) sent by IP camera. For the VCA detection must be enabled and configured on the IP camera settings interface first.

### Steps:

1. Enter VCA Alarm interface of Camera Management and select a camera you want to detect VCA alarm.

Menu> Camera> VCA



2. Enable the VCA detection and configure the rule settings. Please refer to the *User Manual* for detailed instructions.



Please refer to the *User Manual* for detailed instructions to set the VCA rules.

## VCA Search

The NVR supports the VCA search for the behavior analysis, face capture, people counting and heat map.

**Face Search:** Search the captured face picture results triggered by face detection.

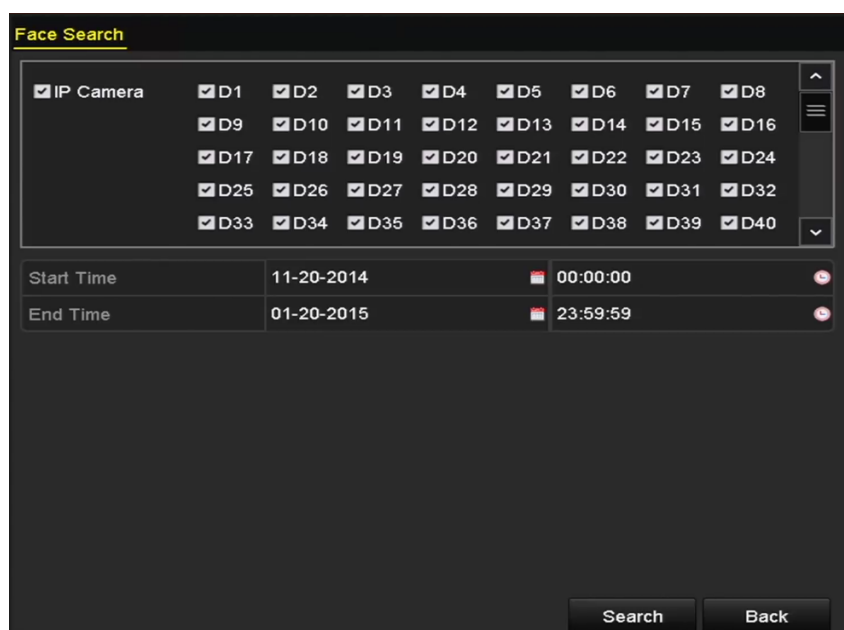
**Behavior Search:** Search and view the behavior detection (including the line crossing detection, intrusion detection, unattended baggage detection, etc.) results in pictures and video files.

**People Counting:** Calculate the number of people entered or exited from a certain configured area and show in chart of daily/weekly/monthly/annual report.

**Heat Map:** Analyze the visit times and dwell time of customers in a configured area. The heat map is a graphical representation of data represented by colors.



Please refer to the *User Manual* for detailed instructions of VCA Search.



## Accessing by Web Browser



You shall acknowledge that the use of the product with Internet access might be under network security risks. For avoidance of any network attacks and information leakage, please strengthen your own protection. If the product does not work properly, please contact with your dealer or the nearest service center.

### Logging In

You can get access to the device via web browser. You may use one of the following listed web browsers: Internet Explorer 6.0, Internet Explorer 7.0, Internet Explorer 8.0, Internet Explorer 9.0, Internet Explorer 10.0, Apple Safari, Mozilla Firefox, and Google Chrome. The supported resolutions include 1024\*768 and above.

#### Steps:

1. Open web browser, input the IP address of the device and then press Enter.
2. Login to the device.
  - If the device has not been activated, you need to activate the device first before login.

**Activation**

User Name: admin

Password: [masked] ✓ Strong

Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.

Confirm: [masked]

OK

- 1) Set the password for the admin user account.
- 2) Click **OK** to login to the device.



**STRONG PASSWORD RECOMMENDED**– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

- If the device is already activated, enter the user name and password in the login interface, and click the **Login** button.

User Name: admin

Password: [masked]

Login



3. Install the plug-in before viewing the live video and managing the camera. Please follow the installation prompts to install the plug-in.



You may have to close the web browser to finish the installation of the plug-in.

## Live View

The live view interface appears by default when you log in the device.



The live view interface may differ according to different models.

## Interface Introduction

No.	Name	Description
1	Channel List	Displays the list of channels and the playing and recording status of each channel.
2	Live View Window	Displays the image of channel, and multi-window division is supported.
3	Play Control Bar	Play control operations are supported.
4	PTZ Control	Pan, tilt, zoom operations are supported, as well as preset editing and calling. PTZ function can only be realized if the connected camera supports PTZ control.















## Start Live View

### Steps:

1. In the live view window, select a playing window by clicking the mouse.
2. Double click a camera from the device list to start the live view.
3. You can click the button on the toolbar to start the live view of all cameras on the device list.

Refer to the following table for the description of buttons on the live view window:



Icon	Description	Icon	Description
	Select the window-division mode		Open/Close audio
	Start/Stop all live view		Start/Stop two-way Audio
	Capture pictures in the live view mode		Adjust volume
	Start/Stop all recording		Enable/Disable digital zoom
	Previous/Next page		Full screen
	Select different stream type for live view by clicking the icon  : live view in main stream;  : live view in sub stream;  :live view in transcoded stream.		

## Recording

### Before you start

Make sure the device is connected with HDD or network disk, and the HDD or network disk has been initialized for the first time to use.

Two recording types can be configured: Manual and Scheduled. The following section introduces the configuration of scheduled recording.


### Steps:

1. Click **Configuration> Storage> Schedule Settings** to enter Record Schedule settings interface.
2. Select the camera to configure the record schedule.
3. Check the checkbox of **Enable** to enable recording schedule.

4. Choose the day in a week configure the recording schedule.

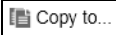
- 1) Click a day to set the start time and end time for recording.

- 2) Select the **Record Type** for the period. The record type can be Schedule, Motion, Alarm, Motion & Alarm, Motion | Alarm and Event.
- 3) Click **Save** to save the settings.

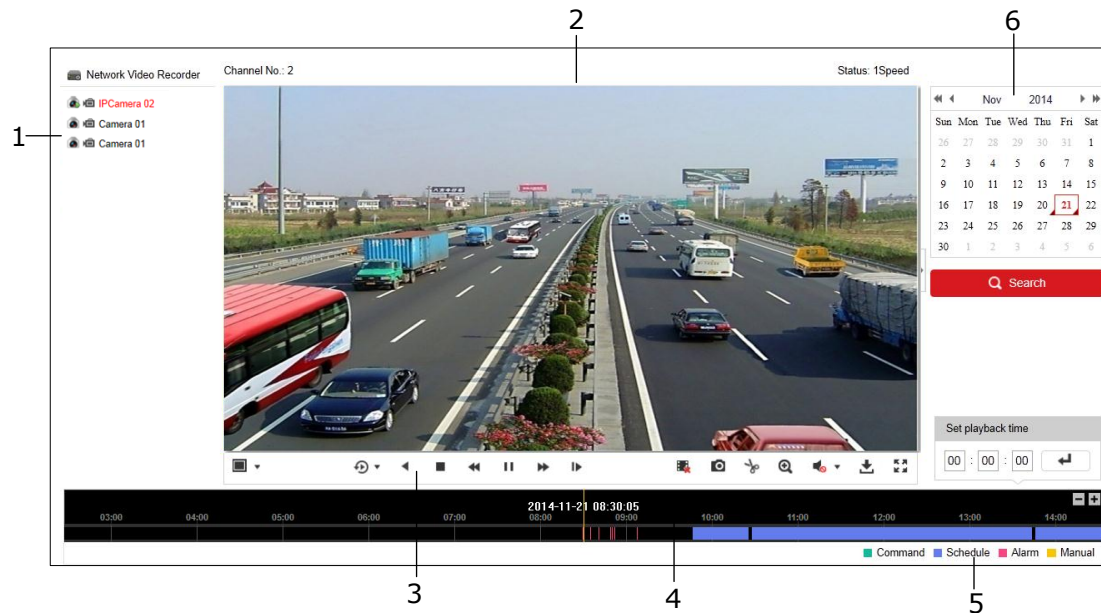
- 4) Click the  icon of the day to copy the settings of current day to other days of the week if required.

- 5) Click **OK** to save the settings.

5. Click **Advanced** to configure advanced record parameters.

6. You can click  to configure advanced record parameters to copy the schedule of current camera to other cameras.
7. Click **Save** to activate the above settings.

## Playback



The playback interface may differ according to different models.

### Interface Introduction














No.	Name	Description
1	Channel List	Displays the list of channels and the playing status of each channel.
2	Playback Window	Displays the image of channel.
3	Play Control Bar	Play control operations are supported.
4	Time Line	Displays the time bar and the records marked with different colors.
5	Recording Type	Show the icons of different recording types.
6	Calendar	You can select the date to play the video files.

### Start Playback

#### Steps:

1. Click **Playback** on the menu bar to enter playback interface.
2. Click the camera from the device list for playback.
3. Select the date from the calendar and click **Search**.
4. Click the **Play** button to play the video file searched on the current date.
5. Use the buttons on the toolbar to operate in playback mode.

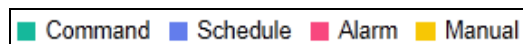
Button	Description	Button	Description
--------	-------------	--------	-------------

Button	Description	Button	Description
	Play/Pause		Stop
	Speed down		Speed up
	Play by single frame		Capture
	Stop all playback		Download
	Start/Stop video clipping		Open/Close audio
	Full screen		Reverse playback
	Transcoded Playback		

6. You can drag the progress bar with the mouse to locate the exact playback point. You can also input the time

in the textbox  and click  button to locate the playback point.

The color of the video on the progress bar stands for the different video types.



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